

plurality of sound effects in a predetermined sequence or a random sequence by means of a bi-polar digital signal. 3

54. A sound reproducing system for a model train traveling on a plurality of rails that uses an amplified digital control signal for propulsion and control, the system comprising:

1. a sound unit;
a memory within the sound unit wherein the memory stores a plurality of sound effects at addresses wherein the sound effects contain multiple samples that emulate a train locomotive at various conditions; and
a controller connected to the memory for recalling at least one of the sound effects wherein the controller is an integrated sound, motor, and special effects controller and further wherein the controller is controlled by a bi-polar digital signal and further wherein the controller recalls the sound effects of either one or the plurality of sound effects in a predetermined sequence or a random sequence by means of the bi-polar digital signal.

55. The system of Claim 54 wherein the plurality of sound effects are analog.

56. The system of Claim
54 wherein the plurality
of sound effects are
digital.